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UNITED STATES DEPARTMENT OF AGRICULTURE
Rural Electrification Administration
Washington 25, D. C.

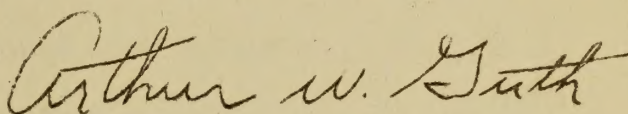
January 11, 1946

TO ALL REGIONAL HEADS, AND FIELD REPRESENTATIVES:

We have enclosed an illustrative breakdown of contractor's costs, material, labor and overhead, for the various units of electrical installations designated in the proposed contract, to be used as unit prices between contractors and members. These breakdowns are based on material costs to the contractor, F.O.B. St. Louis, Missouri. The labor charges are based on \$1.25 per hour, for a journeyman electrician, and \$0.75 per hour for his helper. We suggest that you compare these prices with those prevailing in your territory, and correct them accordingly.

The listing we have submitted to you is not for general distribution, but to be used merely as a guide in your discussions with contractors, in order that your efforts to obtain uniform fair prices for these installations for the members of the various cooperatives may be on a sound basis.

Very truly yours,



Arthur W. Gerth, Chief
Applications and Loans Division

Enclosure

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ILLUSTRATIVE BREAKDOWN CONTRACTOR'S COST * MATERIAL & LABOR

Item 1. Contract Price \$9.25

Description -- Service Ent. cable from required height to 2-wire 35 amp multibreaker with one branch circuit. Surface type with option of 1-15-amp., 1-20 amp, or 1-25 amp circuit.

Contractors Cost Estimate

1	2-wire 15 amp one cir. breaker.....	1.40
15'	10-2 Service Ent. Cable @ .0690
1	8-2 Box connector (cable to breaker).....	.11
15'	No. 6 Bare copper ground wire .02 $\frac{1}{2}$37
1	Water Tight Sill Plate.....	.17
1	No. 8 Ent. Head.....	.33
5	No. 8 Cable Strape .011.....	.06
1	Ground rod clamp.....	.16
1	$\frac{1}{2}$ x 8 Ground rod.....	1.16
2	No. 8 Connectors .11.....	.22
	Wood Screws.....	.04
	Total Material	<u>4.92</u>
	Labor	2.00
	Profit & Overhead	<u>2.33</u>
		9.25

Item 2. Contract Price 10.15

Description -- Service Ent. Cable from required height to two wire 35-amp multibreaker with two branch circuits, safety type with option 2-15, 2-20, or 1-15 and 1-20 amp circuits.

Contractors Cost Estimate

1	2-wire 35-amp 2-cir breaker.....	1.92
15'	8-2 serv. Ent. Cable.....071.....	1.07
1	8-2 Box connector.....	.11
15'	No. 6 Ground wire.....02 $\frac{1}{2}$37
1	Sill plate.....	.17
1	Ent. Head.....	.33
5	#8 Cable Straps.....011.....	.06
1	Ground Clamp.....	.16
1	$\frac{1}{2}$ x 8 ground rod.....	1.16
2	#8 connectors.....11.....	.22
	Wood Screws.....	.04
	Total Material	<u>5.61</u>
	Labor	2.00
	Profit & Overhead	<u>2.54</u>
		10.15

Item 3. Contract Price \$18.70

Three wire service cable from required height to three wire 50-amp multibreaker with four branch circuits. Flush type, with optional circuits, 3-15-- 1-20, or 2-15 2-20 amp circuits.

Estimate Cost

1	3-wire 50-amp 4-cir. multibreaker.....	5.85
20'	6-3 Cable.....@.135.....	2.70
20'	No. 6 Bare Copper.....02½.....	.50
1	Sill Plate.....	.17
1	Head #635
3	Line connectors11.....	.33
5	Straps.....011.....	.06
1	Adjust. ground clamp.....	.16
1	½ x 8 ground rod.....	1.16
1	Box connector16
1	¾" Locknut02
	Wood Screws04
	Total Material	11.50
	Labor	2.50
	Profit & Overhead	4.70
		18.70

Item 4. Contract Price 21.10

Three wire service ent. cable from required height to 3-wire 50-amp breaker with 5-cir. Option of cir. 3-15 1-20 & 1-50 or 2-15 2-20 1-50 or 3-15-1-20-1-35 Amp. Cir.

Estimate Cost

1	3-wire 50-amp 6-circuit	7.15
20'	Serv. Ent. Cable @.135	2.70
20'	Bare No. 6	.50
1	Sill Plate	.17
1	#6 Head	.35
3	Line connectors @.11	.33
5	Straps .011	.06
1	Ground clamp	.16
1	Ground rod ½ x 8	1.16
1	6-3 box connector	.16
1	¾ Locknut	.02
	Wood screws	.04
	Total Material	12.80
	Labor	3.00
	Profit & Overhead	5.30
		21.10

Item 6. Contract Price \$2.55
Light Outlet --Wall and Ceiling

4 inch box 20' cable 14-2 non metallic concealed with connection to circuit completed.

1	Offset bar with 4" box (with cable clamps)	.25
20'	12-2	.66
2	Outlet box support ears	.03
10	2-hole cable straps	.03
	Solder, tape, screws, plaster	.18
	Total Material	1.15
	Labor	.75
	Profit & Overhead	.65
		<u>2.55</u>

Item 7. Contract Price 2.90

	Tumbler switch	
20'	14-2	.46
1	T Switch	.26
1	Switch box (with cable clamps)	.13
1	Plate	.04
1	Box Support	.05
10	Cable straps	.03
	Screws, tape, solder, plaster	.18
	Total Material	1.15
	Labor	1.00
	Profit & Overhead	.75
		<u>2.90</u>

Item 8. 3-way switch Contract Price 3.20

3-way Switch installed inside concealed wire (limit 30-ft.)

1	Ear switch box (with cable clamps)	.13
1	Box support	.05
15	14-3 Cable ($\frac{1}{2}$ for each switch)	.60
1	T switch 3-way	.36
1	Plate	.04
	Solder, screws, tape, plaster	.18
12	Cable straps	.03
	Total Material	1.39
	Labor	1.00
	Profit & Overhead	.81
		<u>3.20</u>

Item 9.	Duplex Receptacle	Contract Price	\$2.95
1	Box (with cable clamps)		.13
20'	12-2	.033	.66
1	Receptacle		.20
1	Wall Plate		.04
.10	Straps	.0024	.03
	Tape, solder and screws, plaster		.18
	Total Material		<u>1.24</u>
	Labor		1.00
	Profit & Overhead		<u>.71</u>
			2.95
Item 10.		Contract Price	7.15
20'	6-3 cable	.135 @.17	2.70
1	Box connector		.16
5	Straps	.0175	.09
	Range receptacle		.93
	Total Material		<u>3.88</u>
	Labor		1.50
	Profit & Overhead		<u>1.77</u>
			7.15
Item 11.	(Surface wiring)	Contract Price	2.10
20'	14-2	.023	.46
10	Cable straps	.0024	.03
1	Keyless receptacle		.31
	Screws		.04
	Total Material		<u>.84</u>
	Labor		.75
	Profit & Overhead		<u>.51</u>
			2.10
Item 12.	(Surface wiring)	Contract Price	2.20
20'	14-2	.023	.46
10	cable straps		.03
1	Toggle switch		.38
	Screws		.04
	Total Material		<u>.91</u>
	Labor		.75
	Profit & Overhead		<u>.54</u>
			2.20

Item 13.	(Surface wiring)	Contract Price	2.20
20'	14-2	@.023	.46
10	Cable straps	.0024	.03
1	Duplex receptacle		.37
	Screws		.04
		Total Material	.90
		Labor	.75
		Profit & Overhead	.55
			<u>2.20</u>

Item 14.		Contract Price	7.30
1	Vapor-tight lighting fixture & plate		1.50
20'	14-2	.023	.46
20'	conduit $\frac{1}{2}$ inch	.0625	1.35
42'	14 R.C. Wire	@.009	.38
1	4" box (with cable clamps)		.16
	screws		.04
2	Bushings	@.03	.06
2	Locknuts	@.01	.02
		Total Material	3.97
		Labor	1.50
		Profit & Overhead	1.83
			<u>7.30</u>

Item 15.		Contract Price	9.25
1	14 inch yard light		1.85
3	Lag Screws		.08
3	No. 10 connectors	@.05	.15
15'	$\frac{1}{2}$ inch conduit	@.0625	.93
1	Entrance head		.20
1	Outdoor switch fitting		1.85
40'	14 R.C. Wire	.009	.36
		Total Material	5.42
		Labor	1.50
		Profit and Overhead	2.33
			<u>9.25</u>

Item 16.		Contractors Price	4.10
1	14" yard light reflector (REA approved)		1.85
3	Lag screws		.08
2	No. 10 connectors	@.05	.10
	Tape		.03
		Total Material	2.06
		Labor	1.00
		Profit & Overhead	1.04
			<u>4.10</u>

Item 17 and 18.	Contractors Price	6.00
(Water pump & 1-h.p. motors)		
Type H Sentinel Breaker, 2 pole		2.00
Cabinet for breaker		.35
20' 10-2 (with Bonding wire)	@.0559	1.12
10 Straps & nails	.0024	.03
	Total Material	3.50
	Labor	1.00
	Profit & Overhead	1.50
		<u>6.00</u>

Item 19.	Contractors Price	14.80
(3-h.p. motor)		
20' 8-2 cable (with Bonding wire)	@.0925	1.85
1 Reset motor start switch		7.48
10 Straps & nails		.03
	Total Material	9.36
	Labor	1.00
	Profit & Overhead	3.44
		<u>14.80</u>

Item 20.	Contractors Price	28.50
(ship-motor)		
20 6-2 Cable (with bonding wire)	@.1466	2.94
1 Reset Motor Start switch		17.60
10 Straps & nails		.03
	Total Material	20.57
	Labor	1.00
	Profit & Overhead	6.93
		<u>28.50</u>

Item 21.	Contractors Price	3.50
No. 10 W.P. 100-ft.		
100ft. No.10 Weatherproof	.01235	1.24
2 connectors	@.08	.16
2 wire holders	.16	.16
Tape		.04
	Total Material	1.60
	Labor	1.00
	Profit & Overhead	.90
		<u>3.50</u>
Installed price per 100 feet		

Item 22.		Contractors Price	4.20
100 ft. No. 8 W.P.	.01640		1.64
2 connectors		@.08	.16
2 Wire holders			.32
Tape			.04
		Total Material	2.16
		Labor	1.00
		Profit & Overhead	1.04
Installed price per 100 feet			4.20

Item 23.		Contractors Price	5.50
106 ft. No. 6 W.P.	.0238		2.38
2 connectors		@.08	.16
2 Wire holders			.32
Tape			.04
		Total Material	2.90
		Labor	1.25
		Profit & Overhead	1.35
			5.50

Item 24.		Contractors Price	6.90
100 ft. No. 4 W.P.	.0331		3.31
2 connectors		@.08	.16
2 Wire holders			.32
Tape			.04
		Total Material	3.83
		Labor	1.47
		Profit & Overhead	1.60
Installed price per 100 feet			6.90

Note: The material prices contained in these breakdowns contemplate the purchase of reasonable quantities. No unbroken packages of materials or broken coils of wire may be considered at these prices.

